

**Bonneville Power Administration  
Fish and Wildlife Program FY99 Proposal**

**Section 1. General administrative information**

**Restor/Enhance Trout Creek @ Ashwood  
Phase II 1999 Funding**

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**Bonneville project number, if an ongoing project** 9003

**Business name of agency, institution or organization requesting funding**  
Jefferson County Soil & Water Conservation District for Trout Creek Watershed Council

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**Business acronym (if appropriate)** JCSWCD

**Proposal contact person or principal investigator:**

**Name** Marie Horn  
**Mailing Address** 243 SW 3rd St  
**City, ST Zip** Madras, Or 97741  
**Phone** (541)475-3144  
**Fax** (541)475-6793  
**Email address**

**Subcontractors.**

Organization	Mailing Address	City, ST Zip	Contact Name

**NPPC Program Measure Number(s) which this project addresses.**

Section 7 7.6, 7.7

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**NMFS Biological Opinion Number(s) which this project addresses.**

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**Other planning document references.**

Wy Kan Ush Me Wa Kush Wit , Trout Creek Assessment, Memorandums of Agreement:  
Natural Resources Conservation Service , Oregon Dept. of F&W  
Landowners,landmangers in Trout Creek

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**Subbasin.**

Trout Creek Watershed

**Short description.**

Stablize Streambanks, Improve water quality/quantity

**Section 2. Key words**

Mark	Programmatic Categories	Mark	Activities	Mark	Project Types
X	Anadromous fish	X	Construction	X	Watershed
+	Resident fish		O & M		Biodiversity/genetics
+	Wildlife		Production		Population dynamics
	Oceans/estuaries		Research		Ecosystems
	Climate		Monitoring/eval.		Flow/survival
	Other	+	Resource mgmt		Fish disease
		+	Planning/admin.		Supplementation
			Enforcement	+	Wildlife habitat en-
			Acquisitions		hancement/restoration

**Other keywords.**

Steelhead , a candidate species for listing on the ESA

**Section 3. Relationships to other Bonneville projects**

Project #	Project title/description	Nature of relationship
-9366	NE Or. Screens/Passage	Trout Creek Watershed plan
940200	T.C. Habitat Restoration	Trout Creek Watershed plan
9303000	Buckhollow W.Enhancement	Basin plan
9405400	Bull Trout Studies C/NE Org.	Stock status

**Section 4. Objectives, tasks and schedules****Objectives and tasks**

Obj 1,2,3	Objective	Task a,b,c	Task
1	decrease sedimentation	a	stabilize stream banks
2	Increase riparian vegetation	b	willow & native vegetation
3	Improve wildlife habitat	c	improve riparian areas

**Objective schedules and costs**

<b>Objective #</b>	<b>Start Date mm/yyyy</b>	<b>End Date mm/yyyy</b>	<b>Cost %</b>
1	5/1998	4/1999	85.00%
2	5/1998	4/1999	15.00%
			TOTAL 100.00%

**Schedule constraints.**

None foreseen

**Completion date.**

1999

**Section 5. Budget****FY99 budget by line item**

<b>Item</b>	<b>Note</b>	<b>FY99</b>
Personnel	Project Manager	\$4,800
Fringe benefits		
Supplies, materials, non-expendable property		
Operations & maintenance		
Capital acquisitions or improvements (e.g. land, buildings, major equip.)	Camera: photo points (before & after records	\$ 400
PIT tags	# of tags:	
Travel	Project manager	\$1,200
Indirect costs	clerical support: telephone, copying, postage, film/developing	\$2,400
Subcontracts	Excavating, plantings, rock & placement	\$48,000
Other		
<b>TOTAL</b>		<b>\$56,800</b>

### ***Outyear costs***

<b>Outyear costs</b>	<b>FY2000</b>	<b>FY01</b>	<b>FY02</b>	<b>FY03</b>
Total budget				
O&M as % of total				

## **Section 6. Abstract**

The Trout Creek Watershed Council is developing a long range plan to reduce sedimentation, reduce temperature and increase water quantity and quality. This will be accomplished by riparian restoration projects and working with private landowners to improve livestock management and reduce the impact on riparian vegetation.

Bank stabilization will be done by using bank sloping, juniper and rock riprap where feasible. Vegetation, utilizing willow plantings, established willows (with root wads) and native plants, will be used to stabilize and enhance streambanks. The improvements will be decreased sedimentation, improved water quantity and quality, enhanced steelhead and redband trout habitat. The project is expected to be completed in May 1999.

The Trout Creek Council, JCSWCD and Oregon Dept. of Fish and Wildlife along with private landowners/landmanagers will be responsible for monitoring and evaluating the project. Funds will be solicited for monitoring and data recording.

## **Section 7. Project description**

### **a. Technical and/or scientific background.**

Trout Creek has a history of flashiness that leaves damaged riparian areas in its wake. The flashiness has resulted from timber harvest practices, erosion in the headwaters, degraded riparian areas and juniper encroachment in the uplands. After the 1964 flood, the Corps of Engineers placed berms in Trout Creek. There have been resultant consequences from the berms washing out and eroding. The Corps has been contacted to participate in the restoration efforts in Trout Creek. The goal of the Watershed Council and JCSWCD is to restore and revegetate the riparian areas to develop a proper functioning watershed, with retention of water being released slowly over a period of time. The restoration goals are to stabilize streambanks and revegetate the areas with native plants. The Watershed Council is working with local landowners/landmanagers to improve livestock management practices to eliminate impact on riparian vegetation. The Oregon Dept. of F&W has worked extensively in the Trout Creek area to restore and enhance steelhead and redband trout habitat and increase production of same.

Jefferson County SWCD has a published Trout Creek Watershed Resources Inventory and Problem Assessment. In 1984 the Dept. of F&W and twenty-one landowners, with funding from BPA did a project that included 140 miles of

livestock fencing, 750 cu. yds of spawning gravel, 4,956 instream structures, 21,000 ft. of juniper riprap, 10 off-stream livestock water developments, 17 irrigation-pump fish screens and 13 rotary fish screens for irrigation diversion ditches. Funding from the Governors Watershed Enhancement Board (GWEB), Bureau of Reclamation and Corps of Engineers is also being sought for this project. The Bureau of Reclamation (BOR) funded an on-site evaluation of projects needed and the results will be forthcoming. The evaluation will be used by the Watershed Council to develop a priority list. The Watershed Council is developing a Long Range Plan and an Action Plan using these assessments, evaluations and studies to address uplands, riparian, grazing and timber issues in the watershed. The positive benefits of this restoration will be to decrease sedimentation and temperature. It will increase the fish spawning and rearing habitat for steelhead.

**b. Proposal objectives.**

**1. The proposed objective is to reduce sedimentation:**

- a. Bank stabilization will decrease sedimentation and improve fish spawning and rearing grounds.**

**3. The proposed objective is to increase vegetation:**

- a. Plant willows ( a native to Trout Creek ) and vegetation**
- b. Bank stabilization structures will be placed to capture sedimentation that will increase the growth and stability of the vegetation and build up banks.**

**c. Rationale and significance to Regional Programs.**

The Trout Creek Watershed is part of the Middle Deschutes drainage in the Deschutes Basin. There is a Deschutes Basin group that the watershed Councils and JC SWCD participates in. The goal of these groups are to have a Basin wide approach to watershed health.

**d. Project history**

N/A

**e. Methods.**

The projects in Trout Creek will be coordinated efforts to bring a continuity to restored/enhanced sections in the riparian areas. BPA has invested funding for previous projects for fencing, streambank stabilization and vegetation. The proposed project will add one fourth of a mile to this continuity. The site is a highly eroded bank and the proposal is to reshape the bank with material found at the site

and to utilize established willows, by using the whole plant/rootwad to stabilize the bank. The bank will be reshaped and replanted, keeping in mind the natural meander of the creek. The Dept. of F&W is working with the Council for placement, design and critical timing for fish protection. The Bureau of Reclamation finished an on-site evaluation of some of the major concerns of the landowners. This site was a high priority. The landowner does not graze this riparian area, he has leased some of this land to upland bird hunters.

The critical assumptions are that with this restoration effort, sedimentation will be reduced, fish habitat will improve and water temperature will decrease.

Landowners, ODFW, Trout Creek Watershed Council and Jefferson County Soil and Water Conservation District will be responsible for monitoring and evaluating the results.

Results from projects in the Trout Creek Watershed will be gathered and compiled into a usable data base.

**f. Facilities and equipment.**

The project will be facilitated and administered by the Jefferson County Soil & Water Conservation District and will furnish space/computer use and clerical assistance to the project manager.

Major equipment for excavating and rock placement will be sub-contracted.

Madras High Forestry and Vo-Ag classes and Middle School students will be contacted for volunteers to assist with the vegetative plantings.

Corps may furnish equipment for any of the project that will involve the Corps.

**g. References.**

## **Section 8. Relationships to other projects**

In 1985 BPA funded a project in Trout Creek through the Oregon Dept. of Fish & Wildlife for riparian restoration/enhancement. The ODFW has continued to enhance this project with Access & Habitat (A&H) and Restoration and Enhancement (R&E) program funds.

The Corps of Engineers has been contacted concerning the erosion and washout of berms they placed in Trout Creek in 1965.

Private land owners and land managers are working with and serve on the Board of Directors of the Trout Creek Watershed Council. This Watershed Council is developing an Action Plan to address all *issues of concern* found in the watershed.

Natural Resources Conservation Service is developing new or up-dated resource

management plans that will identify concerns for the “Environmental Quality Incentive Program” (EQIP) for landowners in Trout Creek. The JCSWCD has hired a resource management planner for additional resource management plans. Once these plans are developed they will be used as a basis to implement projects in the watershed that will compliment each other for a whole-watershed health approach.

Ochoco Lumber and other private timber managers are working with the Watershed Council to address timber harvest management plans. US Forest Service, Oregon Dept of Forestry and ODFW serves as an advisor to the Council. Members of the Council are also members of the Cattleman’s Association and will advise on livestock management concerns.

The Watershed Council, along with the JCSWCD will act as a catalyst to bring together concerned landowners/landmanagers and agencies to work towards building Trout Creek into a proper functioning condition watershed with economic benefits to landowners, landmanagers, with improved habitat for fish/wildlife.

## **Section 9. Key personnel**

### **Project Manager:**

Marie Horn, *Watershed Coordinator*.

Marie also works as an *Office Manager* for the JCSWCD.

Current responsibilities are to administer all funding, record keeping, payroll, grant applications and reports due, for project updates and completion.

She works as Office Manager and Watershed Coordinator until a full-time Coordinator will be needed.

Marie is hired and supervised by the Jefferson County SWCD and gets daily direction and supervision from the Resource Conservationist of Natural Resource Conservation Service.

Marie will work closely with Tom Nelson, ODFW (Trout Creek Project), who has extensive experience with fish & wildlife projects in Jefferson County.

Marie works with the Trout Creek Watershed Council to develop priority areas and Action Plans to address the concerns unique to Trout Creek.

Marie has 25 years experience.

As a Watershed Coordinator she has contact and shares information with various agencies, other Watershed Coordinators, ODFW, NRCS, ODA, Oregon Trout, and agencies/organizations concerned with conservation efforts in watersheds.

As a Watershed Coordinator and SWCD Office Manager, Marie has access to information, project types and results of watershed restoration efforts on-going in BuckHollow by Ron Graves. The efforts being made there are the desires by the Trout Creek watershed Council to immutate for Trout Creek.

## **Section 10. Information/technology transfer**

**Information will be shared by promoting the efforts of Watershed Council in Jefferson County. Public tours of projects will be scheduled. The OSU Extension Service has an educational project that will teach school age children and young adults about watershed projects and keeping watersheds healthy. JCSWCD will coordinate public tours with this educational outreach project. The Watershed Coordinator shares and gathers information among Watershed Councils and Coordinators. Public news items on projects will be published. Workshops for the public, landowners and agencies will be developed that will teach and show a Proper Functioning Condition (PFC) watershed. All of the proposed projects will be working towards this goal.**